



## Research & Efforts in the Human Dimension, Index

### Resilience Week 2016, Aug. 18, 2016

#### Track Proceedings

##### DOE Lab human dimension overviews

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[Call for Submissions: DOE Human Dimension special issue, Journal of Human Performance in Extreme Environments](#)

["FFRDCs: Where are the National Laboratories? Human Dimension Work at the National Laboratories," National Defense Industrial Association Human Systems Conference 2016.](#)

#### Research & Efforts in the Human Dimension Abstracts

Title	Author	Affiliation	Track Category
<a href="#"><u><i>Resiliency is a Wicked Problem</i></u></a>	Pamela J. Sydelko	Systems Science Center, ANL	Methods, Theory and Applications of Cross-systems Approaches
<a href="#"><u><i>Striving to achieve resilience across social, environmental, and technical systems</i></u></a>	Amy K. Wolfe	Sustainable Systems and Social Sciences, ORNL	
<a href="#"><u><i>A Brief Survey of Methods to Analyze Human Decisions for Infrastructure Resilience Applications</i></u></a>	Michael North	Systems Science Center, ANL	
<a href="#"><u><i>Using a Dynamic Modeling Approach to Understanding Resilience</i></u></a>	Ignacio J. Martinez-Moyano, presented by Michael North	Systems Science Center, ANL	
<a href="#"><u><i>Integrating Narrative into Engineering Decision Making</i></u></a>	Cameron A. MacKenzie	Simulation, Modeling, and Decision Science, Ames Lab	
<a href="#"><u><i>Incorporating Human Readiness Levels at Sandia National Laboratories</i></u></a>	Judi E. See	Systems Research and Analysis, SNL-NM	

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<a href="#"><u>Computational Modeling of Visual Search Behavior</u></a>  <a href="#"><u>To Err is Human: How Automation of the Grid Is Impacting Operator Performance and System Resilience</u></a>  <a href="#"><u>Human dimensions of infrastructure interdependency and resilience</u></a>	<p>Hong-Jun Yoon</p> <p>Laurie Burnham</p> <p>Diane J. Graziano</p>	<p>Health Data Sciences Institute, ORNL</p> <p>Power Systems Research, SNL-NM</p> <p>Global Security Sciences, ANL</p>	<p>Human-Technology Integration: Evaluation</p>
<a href="#"><u>Digital Cancer Surveillance</u></a>  <a href="#"><u>Human-Machine Interface Research at the Los Alamos National Laboratory Engineering Institute</u></a>  <a href="#"><u>Real-time Data Collection through Wearable Devices to Quantify Attributes Related to Health and Performance in Extreme Conditions</u></a>  <a href="#"><u>The Driver's Missing Windshield: Enabling the Operator's Forward View Through Predictive Displays for Process Control</u></a>	<p>Georgia D. Tourassi</p> <p>David Mascareñas</p> <p>Glory Emmanuel Aviña, presented by Victoria Newton</p> <p>Ronald L. Boring, presented by Roger Lew</p>	<p>Health Data Sciences Institute, ORNL Los Alamos National Laboratory Engineering Institute, LANL</p> <p>Aviña: Data Science and Cyber Security, SNL-CA Newton: Cognitive Sciences and Systems, SNL-NM</p> <p>Boring: Resilient Control &amp; Instrumentation Systems, INL Lew: Department of Virtual Technology and Design, UI</p>	<p>Human-Technology Integration: Tools</p>
<a href="#"><u>Enabling Situation Assessment/Awareness for Utility Operators and Cybersecurity Professionals</u></a>  <a href="#"><u>An Overview of the Ames Lab Simulation, Modeling, and Decision Science Program</u></a>	<p>Mark Rice</p> <p>Kenneth "Mark" Bryden, presented by Zachary Reinhart</p>	<p>Energy Infrastructure, PNNL</p> <p>Simulation, Modeling, and Decision Science, Ames Lab</p>	